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SLC35D3 Antibody

Catalog # ASC11392

Product Information

Application	WB, IF, ICC, E
Primary Accession	Q5M8T2
Other Accession	AAH87842, 56912198
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	44183
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SLC35D3 antibody can be used for detection of SLC35D3 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunocytochemistry starting at 2.5 g/mL. For immunofluorescence start at 5 g/mL.

Additional Information

Gene ID	340146
Other Names	Solute carrier family 35 member D3, Fringe connection-like protein 1, SLC35D3, FRCL1
Target/Specificity	SLC35D3; At least two isoforms of SLC35D3 are known to exist; this antibody will recognize both isoforms. SLC35D3 antibody is predicted to not cross-react with SLC35D1 or SLC35D2.
Reconstitution & Storage	SLC35D3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SLC35D3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLC35D3 (HGNC:15621)
Function	Probable UDP-glucose transmembrane transporter involved in UDP-glucose transport from the cytosol to the lumen of synaptic vesicles (PubMed:34269178). It is involved in platelet dense granules maturation (By similarity).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Multi-pass membrane protein. Early endosome membrane

{ECO:0000250|UniProtKB:Q8BGF8}; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q8BGF8}; Multi-pass membrane protein. Note=Active at early endosome membrane in the biosynthesis of mature platelet-dense granules {ECO:0000250|UniProtKB:Q8BGF8}

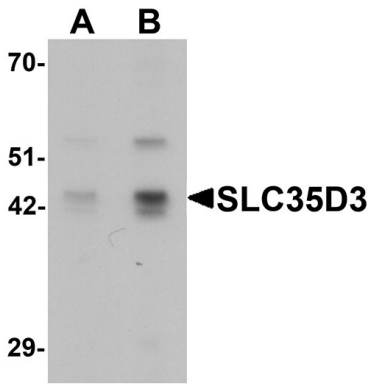
Background

SLC35D3 Antibody: The solute carrier family SLC35 consists of at least 17 proteins that act as nucleotide sugar transporters localized to the Golgi apparatus and endoplasmic reticulum. The novel protein SLC35D3 is highly homologous to SLC35D1 and SLC35D2, both of which transport UDP-glucuronic acid and UDP-N-acetylgalactosamine, suggesting that SLC35D3 is also involved in the transport of nucleotide sugars. It has been suggested that SLC35D3 regulates platelet dense granules, lysosome-related organelles which contain high concentrations of several biologically important low molecular weight molecules necessary for normal blood homeostasis.

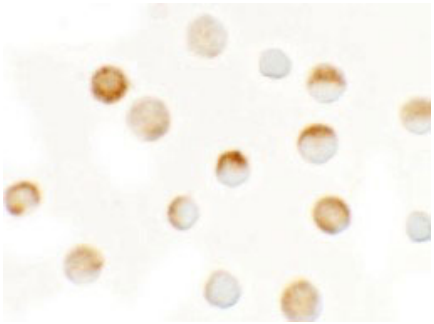
References

Ishida N and Kawakita M. Molecular physiology and pathology of the nucleotide sugar transporter family (SLC35). Pflugers Arch. 2004; 447:768-75.
Suda T, Kamiyama S, Suzuki M, et al. Molecular cloning and characterization of a human multisubstrate specific nucleotide-sugar transporter homologous to Drosophila fringe connection. J. Biol. Chem. 2004; 279:26469-74.
Chintala S, Tan J, Gautam R, et al. The Slc35d3 gene, encoding an orphan nucleotide sugar transporter, regulates platelet-dense granules. Blood 2007; 109:1533-40

Images

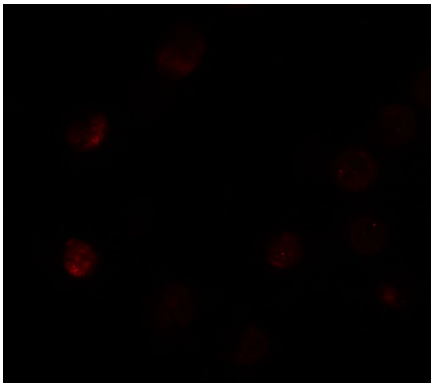


Western blot analysis of SLC35D3 in HeLa cell lysate with SLC35D3 antibody at (A) 1 and (B) 2 µg/mL.



Immunocytochemistry of SLC35D3 in HeLa cells with SLC35D3 antibody at 2.5 µg/mL.

Immunofluorescence of SLC35D3 in HeLa cells with SLC35D3 antibody at 5 µg/mL.



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